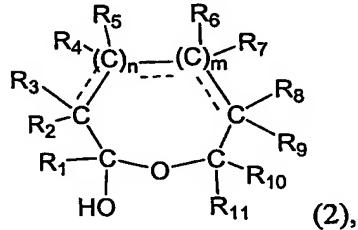
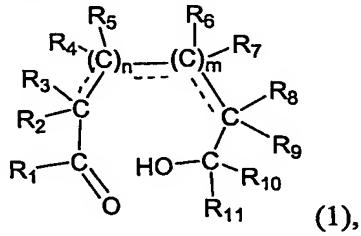
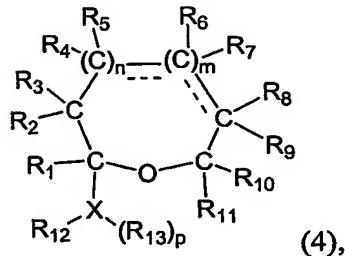
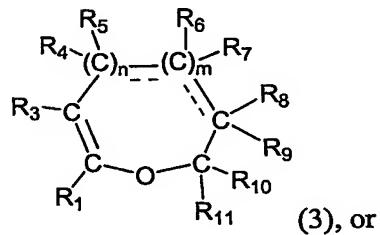


## CLAIMS

1. A composition comprising a base material and a compound having the formula:



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wherein R<sub>1</sub> through R<sub>11</sub> are each independently selected from H, linear or  
 10 branched alkyl, alkenyl, or alkylidene groups having from 1 to 6 carbon atoms, or  
 cycloalkyl or cycloalkenyl groups having from 3 to 10 carbon atoms,  
 R<sub>12</sub> and R<sub>13</sub> are each independently selected from linear, branched, or cyclic alkyl,  
 alkenyl, aryl, aralkyl, acyl, or oxoacyl groups, a fragment of a dihydric or polyhydric  
 alcohol, a carbohydrate fragment, a fragment of a di- or polycarboxylic acid, a fragment

of an aminoacid, a fragment of a polypeptide, a polyether fragment, a polyester fragment, or a hydrogen atom;

n and m are each independently 0 or 1;

the total number of carbon atoms in the compound is less than 20; and

5 any one of the dashed bonds may be single or double, with the proviso that no more than one dashed bond is double, and no two adjacent bonds in the structures are double at the same time,

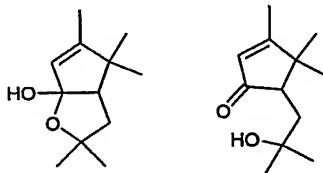
wherein the amount of the compound is selected such that the compound produces a cooling sensory effect when the composition is tasted, smelled, applied to the skin of a  
10 mammal, or applied to an internal epithelium of a mammal.

2. A composition according to claim 1 wherein at least one of the R<sub>1</sub> through R<sub>11</sub> groups further includes a group selected from hydroxyl, amino, carboxyl, and carboxamide groups.

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3. A composition according to claim 1 wherein any two R groups may be connected to each other by one or more carbon atoms other than those shown in the formulae, or by a heteroatom selected from oxygen, nitrogen, and sulfur atoms.

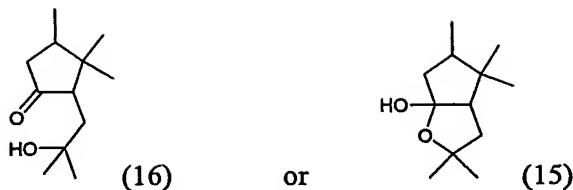
20 4. A composition according to claim 1 wherein the compound comprises a compound having the formula



(7), or (8),  
and combinations thereof.

25

5. A composition according to claim 1 wherein the compound comprises a compound having the formula



and combinations thereof.

- 5 6. A composition according to claim 1 wherein the amount of the compound is selected such that the compound also imparts a fragrance, flavor, or combination thereof to the composition.
7. A composition according to claim 1 wherein the composition is selected from the 10 group consisting of chewing gums, confectionaries, and beverages.
8. A composition according to claim 1 wherein the composition is selected from the group consisting of toothpastes and mouthwashes.
- 15 9. A composition according to claim 1 wherein the composition is a smoking or chewing tobacco article.
10. A composition according to claim 1 wherein the composition is selected from the 20 group consisting of cosmetics, skin care products, and skin cleaning products.
11. A composition according to claim 1 wherein the composition is a medicinal preparation.
12. A composition according to claim 1 wherein the compound produces a cooling 25 sensory effect upon exposure of the composition to moisture, heat, light, solvents, acids, bases, or combinations thereof.
13. A method of producing a cooling sensory effect in a mammal comprising:

- (a) providing a composition according to claims 1-12; and
- (b) allowing the mammal to sample the composition by tasting it, smelling it, applying it to the skin of the mammal, applying it to an inner epithelium of the mammal, or a combination thereof.